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NATIONAL BUREAU OF STANDARDS REPORT

1828

BIBLIOGRAPHY OF NONPARAMETRIC STATISTICS AND RELATED TOPICS

by

I. Richard Savage

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

U. S. DEPARTMENT OF COMMERCE
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NATIONAL BUREAU OF STANDARDS
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2. Optics and Metrology. Photometry and Colorimetry. Optical Instruments. Photographic Technology. Length. Gage.

3. Heat and Power. Temperature Measurements. Thermodynamics. Cryogenics. Engines and Lubrication. Engine Fuels.

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5. Chemistry. Organic Coatings. Surface Chemistry. Organic Chemistry. Analytical Chemistry. Inorganic Chemistry. Electrodeposition. Gas Chemistry. Physical Chemistry. Thermochemistry. Spectrochemistry. Pure Substances.

6. Mechanics. Sound. Mechanical Instruments. Aerodynamics. Engineering Mechanics. Hydraulics. Mass. Capacity, Density, and Fluid Meters.

7. Organic and Fibrous Materials. Rubber. Textiles. Paper. Leather. Testing and Specifications. Organic Plastics. Dental Research.

8. Metallurgy. Thermal Metallurgy. Chemical Metallurgy. Mechanical Metallurgy. Corrosion.

9. Mineral Products. Porcelain and Pottery. Glass. Refractories. Enameled Metals. Building Stone. Concreting Materials. Constitution and Microstructure. Chemistry of Mineral Products.

10. Building Technology. Structural Engineering. Fire Protection. Heating and Air Conditioning. Exterior and Interior Coverings. Codes and Specifications.

11. Applied Mathematics. Numerical Analysis. Computation. Statistical Engineering. Machine Development.

12. Electronics. Engineering Electronics. Electron Tubes. Electronic Computers. Electronic Instrumentation.

13. Ordnance Development. Mechanical Research and Development. Electromechanical Fuzes. Technical Services. Missile Fuzing Research. Missile Fuzing Development. Projectile Fuzes. Ordnance Components. Ordnance Tests. Ordnance Research.

14. Radio Propagation. Upper Atmosphere Research. Ionospheric Research. Regular Propagation Services. Frequency Utilization Research. Tropospheric Propagation Research. High Frequency Standards. Microwave Standards.

15. Missile Development. Missile Engineering. Missile Dynamics. Missile Intelligence. Missile Instrumentation. Technical Services. Combustion.

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NBS PROJECT		NBS REPORT
1103-11-1107	29 July 1952	1828

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FOREWORD

Work on this "Bibliography of Nonparametric Statistics and Related Topics" was carried out at the National Bureau of Standards under the general supervision of Dr. Churchill Eisenhart, chief of the Statistical Engineering Laboratory. The Statistical Engineering Laboratory is Section 11.3 of the National Applied Mathematics Laboratories (Division 11, National Bureau of Standards) and is concerned with the development and application of modern statistical methods in the physcial sciences and engineering.

J. H. Curtiss
Chief, National Applied
Mathematics Laboratories

A. V. Astin
Director
National Bureau of Standards

INTRODUCTION

General Remarks: This "Bibliography of Nonparametric Statistics and Related Topics" as now presented is an exploratory effort. It is hoped that the recipients of the bibliography will take advantage of the fact that this is not the final addition of the bibliography and will send to the author any comments, criticisms, and corrections.

Since the field of nonparametric statistics is a new one it is hard to determine precisely which subjects belong in this field. To be on the safe side the compiler has included papers when in doubt. However, basic decisions must be made in future revisions of this bibliography and other bibliographies of nonparametric statistics as to the inclusion of certain repidly developing subjects such as contingency tables and systematic statistics from normal populations. In fact, these two subjects have caused the most difficulty and have received the poorest coverage in this bibliography.

The Bibliography: The bibliography proper begins on page 1 of this report. Items are arranged alphabetically by author. If more than one title, appears for an author these titles are arranged chronologically. And if more than one title for an author appears within a given year, the dates corresponding to these titles are serialized by placing a letter after the date. On the extreme left of the line following the author's name is the date of publication of

the title. On the same line, following the date, is the title itself. At the end of the title, in the right margin, are found annotation letters, whose specific meaning will be explained later in this introduction. The line following the title gives the place of publication. Following this information, for some of the titles, there will be found sequences of numbers of the form rs-xyz in the right margin. The "rs" refers to the year and the "xyz" to the page in Mathematical Reviews where the article has been reviewed. Throughout this introduction a name followed by a date will refer to the title in the bibliography published by that author in that year.

Annotation letters used in the bibliography A, B,..., P, X, will now be explained and illustrated.

A: Surveys and Discussions

These papers are expository, covering a large number of nonparametric subjects. Typical examples are Scheffe (1943b) and Wilks (1948).

B: Theory

Few papers have been written on the theory of nonparametric statistics as such, but an example is the one by Lehmann and Stein (1949).

C: Tchebycheff Inequalities

These papers are on probability inequalities of the original Bienaymé-Tchebycheff type. Fréchet (1937) presents

a summary of the classical results in this subject.

D: Tolerance Sets

Tolerance sets were first described in a nonparametric manner by Wilks (1941). One of the latest papers on this subject, Fraser (1951), shows quite a bit of generalization.

E: Goodness of Fit

Papers in this class are concerned with the problem of whether a set of observations comes from a given family of distributions. By "fit" we not only mean that the parameters of the sample are compatible with those of the distributions we are fitting but also, that the distribution functions of the sample are "close" to that of the assumed population. K. Pearson's (1900) paper on this subject is the classical one.

F: Multi-Sample Problems

By multi-sample problems we mean specifically the testing of the hypothesis that several samples come from the same distribution. In a sense we are asking do the several sample cumulative distribution functions "fit" each other. K. Pearson (1911) gives the classical paper on this subject, and a more recent approach to the problem is given by Lehmann (1951).

G: Parameter Problems

Here we are referring to problems of estimation of parameters and tests of hypotheses about parameters, although

the functional forms of the distributions that are being sampled are not assumed known. Problems of correlation naturally fall in this class, but since there is such an extensive literature on the subject of correlation a separate class (J) has been made. Problems in the analysis of variance as presented by Pitman (1937c) and Brown and Mood (1951) have been included under (G) as typical examples.

H:Contingency Tables

The theory of contingency tables as such is usually parametric in nature. Contingency tables havebeen included in this bibliography however, because of their use in nonparametric statistics. Mainland (1948) offers many examples of the use of contingency tables in essentially nonparametric problems.

I: Randomness

Articles on randomness are concerned with the problem of testing the hypothesis that a set of observations could reasonableyhave arisen from random sampling; for example, F. N. David (1947b).

J: Correlation and Curve Fitting (See G)

These problems have been treated for a long time by nonparametric methods. Kendall (1948a) gives an introduction to this extensive subject.

K: Comparative Studies

Papers in this subject compare the behavior of a statistic for differing underlying sampling models. Such

questions as how the distribution of "Student's t" depends on the population are typical. In analysis of variance a representative example of this type of study is F. N. David and N. L. Johnson (1951b).

L: Systematic Statistics

The phrase "systematic statistic" seems to have originated with Mosteller (1946). The subject is concerned with the behavior of statistics which are linear functions of order statistics. On the one hand there are nonparametric papers in this subject like the one by Gumbel (1946), and on the other hand there are parametric papers such as Mosteller (1946).

M: Scaling

These papers are concerned with the complex problems of attempting to assign quantitative measurements to characteristics that naturally occur in a qualitative form. A typical example is Kendall (1942a).

N: Distribution Theory

Many nonparametric techniques require the determination of distributions for new statistics. For example the distribution theory of runs has been stimulated by nonparametric methods, see Mood (1940).

O: Applications

Very few applications of nonparametric methods exist in the literature. However a good example of application is

Baker and Guilbert (1942).

P: Tables

For small samples many of the nonparametric methods require the construction of special tables. See Swed and Eisenhart (1943).

X:Miscellaneous

Naturally there were some papers that were felt to be nonparametric in nature but yet did not fall into the above classifications. See for example Tukey (1946) on median deviations.

In summary the list of subjects with their annotation letters is as follows:

A Surveys and Discussions

B Theory

C Tchebycheff Inequalities

D Tolerance Sets

E Goodness of Fit

F Multi-Sample Problems

G Parameter Problems

H Contingency Tables

I Randomness

J Correlation and Curve Fitting

K Comparative Studies

L Systematic Statistics

M Scaling

N Distribution Theory

O Applications

P Tables

X Miscellaneous

Papers by Annotation Letter: Perhaps one of the main uses of this bibliography will be to aid in making bibliographies on specialized subjects. To facilitate this, we now give the annotation letter followed by all the titles receiving this classification:

A: SURVEYS AND DISCUSSIONS

Anscombe, (1948)
Bradley, Duncan, (1950)
Bradley, Terry, (1951a)
Cantelli, (1928)
Dixon, Massey, (1951
Fréchet, (1937)
Godwin, (1944)
Haldane, (1949)
Janko, (1950)
Kendall, (1948a)
Kolmogorov, Hincin, (1951)
Lehmann, (1951)
Mosteller, (1941)
Narumi, (1923)
Pearson, E. S., (1937)
Pearson, E. S., (1938b)
Pearson, E. S., (1947)
Pitman, (1948)
Scheffé, (1943b)
Wallis, (1952)
Walter, (1951)
Wilks, (1943)
Wilks, (1948)
Wolfowitz, (1943)
Wolfowitz, (1949)
Wolfowitz, (1952)

B: THEORY

Berger, (1951)
Camp, (1946)
Feller, (1938)
Hodges, Lehmann, (1950)
Hoeffding, (1948a)
Hoeffding, (1950)
Hoeffding, (1951b)
Lehmann, (1951)
Lehmann, Stein, (1949)
Levene, (1952)
Madow, (1948)
Neyman, (1942)
Noether, (1949)
Noether, (1950)
Pearson, E. S., (1938a)
Pitman, (1948)
Scheffé, (1943a)
Scheffé, Tukey, (1945)
Schmidt, (1934)
Simpson, (1951)
Wald, Wolfowitz, (1944)

Walsh, (1949)
Walsh, (1951)
Wolfowitz, (1942)

C: TCHEBYCHEFF INEQUALITY

Anderson, O., (1935)
Bernard, (1943b)
Bernard, (1944)
Berge, (1932)
Berge, (1937)
Berstein, (1927)
Bienayme, (1853)
Bienayme, (1867)
Birnbaum, (1948)
Birnbaum, Raymond, Zuckerman, (1947)
Camp, (1922)
Camp, (1923)
Camp, (1948)
Cantelli, (1910)
Cantelli, (1928)
Chapelon, (1937)
Craig, (1933)
Cramér, (1946)
Curtiss, (1950)
van Dantzig, (1951b)
Frechét, (1937)
Gauss, (1880)
Godwin, (1944)
Goldberg, (1922)
Guttman, (1948a)
Guttman, (1948b)
Halmos, (1950)
de Jongh, (1941)
Kolmogoroff, (1928)
Kolmogoroff, (1950)
Khamis, (1950)
Lesser, (1942)
Lurquin, (1922)
Markoff, (1884)
Markoff, (1924)
Masuyama, (1924)
Meidel , (1922)
Meidel, (1923)
Midzuno, (1950)
von Mises, (1931)
von Mises, (1939b)
Münzner, (1950)
Narumi, (1923)
Offord, (1945)
Pearson, K., (1919)

Peek, (1933)
Perks, (1947)
Possé, (1886)
Robbins, (1948)
Romanovski, (1940)
Sealy, (1943)
Selberg, (1940a)
Selberg, (1940b)
Selberg, (1942)
Shohat, Tamarkin, (1943)
Smith, (1930)
Tchebycheff, (1867)
Tchebycheff, (1880)
Theil, (1949)
Uspensky, (1937)
Wald, (1938)
Wald, (1939)
Winsten, (1946)

D: TOLERANCE SETS

Birnbaum, Zuckerman, (1949)
Fraser, (1951)
Fraser, Wormleighton, (1951)
Gumbel, von Schelling, (1950)
Murphy, (1948)
Noether, (1951)
Paulson, (1943)
Robbins, (1944a)
Scheffé, Tukey, (1944)
Scheffé, Tukey, (1945)
Schützenberger, (1948c)
Tukey, (1947)
Tukey, (1948a)
Wald, (1943)
Wilks, (1941)
Wilks, (1942)

E: GOODNESS OF FIT

Azorin, Wold, (1950)
Berkson, (1938)
Berkson, Geary, (1941)
Birnbaum, Tingey, (1951)
Camp, (1938)
Carroll, Bennett, (1950)
Chung, (1949)
Cochran, (1936-37)
Cochran, (1942)
David, F. N., (1934)

David, F. N., (1939)
David, F. N., (1947a)
David, F. N., (1948)
David, F. N., (1950a)
David, F. N., (1950b)
David, F. N., Johnson, (1948)
Doob, (1949)
Eisenhart, (1937)
Eisenhart, (1938)
Eisenhart, Wilson, (1943)
Elderton, (1902)
Feller, A (1948)
Fisher, (1923)
Fisher, (1924)
Fisher, (1928)
Fisher, (1950)
Fraser, D. A. S., (1950)
Fry, (1938)
Geary, (1947)
Grüneberg, Haldane, (1937)
Gumbel, (1942)
Gumbel, (1943)
Haldane, (1937)
Hannan, (1950)
Hemelrijk, (1950a)
Hemelrijk, (1950b)
Hemelrijk, (1950c)
Hemelrijk, (1950d)
Hoel, (1938)
Kac, (1949)
Kolmogoroff, (1933)
Kolmogoroff, (1941)
Kimball, (1947)
Lesser, (1933)
Malmquist, (1950)
Mann, Wald, (1942)
Massey, (1950b)
Massey, (1950c)
Massey, (1951a)
von Mises, (1931)
Moroney, (1951)
Neyman, (1930)
Neyman, (1935)
Neyman, (1937)
Neyman, (1940)
Neyman, Pearson, E. S., (1930)
Olmstead, (1940)
Patnaik, (1949)
Pearson, E. S., (1938a)
Pearson, K., (1900)
Pearson, K., (1922)
Pearson, K., (1924)

Pearson, K., (1932a)
Pearson, K., (1933a)
Pearson, K., (1933b)
Pearson, K., (1934)
Poti, (1950)
Robinson, (1933)
Sawkins, (1941)
Seal, (1947)
Seal, (1948)
Shanawany, (1936)
Sherman, (1950)
Simpson, (1951)
Smirnoff, (1936)
Smirnoff, (1948)
Sukhatme, (1938)
Vora, (1950)
Wald, Wolfowitz, (1939)
Wald, Wolfowitz, (1941)
Williams, (1950)
Wolfowitz, (1942)

F: MULTISAMPLE PROBLEMS

Bhattacharyya, (1943)
Bhattacharyya, (1946)
Bowker, (1944)
van Dantzig, (1951a)
Dixon, (1940)
Doob, (1949)
Feller, (1948)
Gardner
Hemelijk, (1950a)
Hemelijk, (1950b)
Hemelijk, (1950c)
Hemelijk, (1950d)
Kolmogoroff, (1933)
Krishna, (1951a)
Kunisawa, Makabe , Morimura, (1951)
Lehmann, (1951)
Marshall, (1951)
Massey, (1951a)
Massey, (1951b)
Massey, (1951c)
Mathen, (1946)
Mathisen, (1943)
Nybolle, (1936)
Pearson, K. (1911)
Pearson, K., (1932b)
Rhodes, (1924)
Smirnoff, (1939a)
Smirnoff, (1939b)
Smirnov, (1948)

Thompson, (1938)
van der Vaart, (1950a)
Wald, Wolfowitz, (1940)
Wald, Wolfowitz, (1941)
Wolfowitz, (1942)
Wolfowitz, (1949)

G: PARAMETER PROBLEMS

Armitage, (1944)
Barnard, (1934a)
Blomqvist, (1951)
Bradley (1952b)
Brown, Mood, (1951)
Cochran, (1950)
Cole, (1945)
David, Johnson, (1951a)
David, Johnson, (1951b)
David, H. A., (1951)
Dixon, Mood, (1946)
Druoin, (1951)
Eddison, Kempthoren, Hasking Barkworth, Cox, Rowlands, (1951)
Eisenhart, (1947)
Evans, (1942)
Festinger, (1943)
Festinger, (1946)
Fisher, R. A., (1925)
Fisher, R. A., (1935)
Freeman, Halton, (1951)
Friedman, (1937)
Gayen, (1950a)
Gayen, (1950b)
Guttman, (1948b)
Hemelrijk, (1950b)
Hemelrijk, (1950c)
Hemelrijk, (1950d)
Hemelrijk, (1952)
Hodges, Lehmann, (1950)
Hoeffding, (1950)
Kempthorne, (1952)
Kruskal, (1952)
Mann, Whitney, (1947)
Macstewart, (1941)
Marshall, (1951)
Marshall, Walsh, (1950a)
Marshall, Walsh, (1950b)
Mood, (1950)
Moroney, (1951)
Mosteller, (1948)
Mosteller, Tukey, (1950)
Noether, (1948)
Noether, (1951)

Nair, A. N. K., (1941)
Nair, K. R., (1940a)
Nair, K. R., (1940b)
Nair, K. R., (1948a)
Pearson, E. S., (1931)
Pearson, E. S., (1950b)
Pitman, (1937a)
Pitman, (1937c)
Savur, (1937)
Stuart, (1951)
Swinefford, (1946)
Terry, (1952)
Thompson, (1936)
van der Vaart, (1950b)
Wallis, (1939)
Walsh, (1946a)
Walsh, (1946c)
Walsh, (1946d)
Walsh, (1947)
Walsh, (1949a)
Walsh, (1949b)
Walsh, (1949c)
Walsh, (1949d)
Walsh, (1950a)
Walsh, (1950b)
Walsh, (1950c)
Walsh, (1951)
Welch, (1937)
Welch, (1938)
Westenberg, (1948)
Whitney, (1951)
Wilcoxon, (1945)
Wilcoxon, (1946)
Wilcoxon, (1947)
Wilcoxon, (1949)
Wilcoxon, (1950)
Wilks, (1940)
Zubin, (1939)

H: CONTINGENCY TABLES

Adler, (1951)
Allinson, Bates, (1944)
Barnard, (1945)
Barnard, (1947a)
Barnard, (1947b)
Bonnier, (1942)
Carroll, Bennett, (1950)
Federighi, (1950)
Finney, (1948)
Fisher, R. A., (1922)
Fisher, R. A., (1926a)

Fisher, R. A., (1941)
Fisher, R. A., (1945)
Freeman, Halton, (1951)
Fulcher, (1942)
Gebelein, (1942)
Geppert, (1944)
Gildemeister, van der Waerden, (1943-44)
Haldane, (1939)
Irwin, (1949)
Irwin, Snedecor, (1933)
Jeffreys, (1937)
Jurgensen, (1947)
Kermack, McKendrick, (1940)
Lancaster, (1949)
Leslie, (1951)
Mainland, (1948)
Mood, (1949)
Moroney, (1951)
Patnaik, (1948)
Pearson, E.S., (1947)
Pearson, E.S., Merrington, (1948)
Sillitto, (1949)
Simpson, (1951b)
Smith, (1951a)
Smith, (1951b)
Stevens, (1951)
Swineford, (1948)
Wilks, (1935)
Wilson (1941)
Wilson, (1942a)
Wilson, (1942b)
Wilson, Warcester, (1942a)
Wilson, Warcester, (1942b)
Yates, (1934)
Yates, (1948)

I: RANDOMNESS

Armitage, Baines, Lindley, (1944)
Bartlett, (1950)
Bartlett, (1952)
Bateman, (1948)
Bennett, (1951)
Bertrand, (1875)

Besson, (1920)
Bienaymé, (1875)
Bilham, (1926)
Borel, (1933)
Bose, (1946)
Bose, (1950)
Brown, (1948)
Cameron, (1952)
Campbell, (1942)
Cochran, (1936)
Cochran, (1938)
Cowles, Jones, (1937)
David, (1947b)
Davies, (1941)
Dodd, (1939)
Dodd, (1941)
Dodd, (1942)
Eisenhart, Wilson (1943)
Elfving, Whitlock, (1950)
Finney, (1941-42)
Finney, (1947)
Fisher, R.A., (1926b)
Freund, (1951)
Gage, (1942)
Ghosh, (1948)
Gleissberg, (1945a)
Gleissburg, (1945b)
Gold, (1929)
Greenwood, (1946)
Haldane, Smith, (1948)
Johnson, (1948)
Jones, (1937)
Kendall, Smith, (1938)
Kendall, Smith, (1939a)
Kendall, Smith, (1939b)
Kermack, McKendrick, (1937a)
Kermack, McKendrick, (1937b)
Kuznets, (1929)
Levene, (1946a)
Levene, (1946b)
Levene, (1952)
Levene, Wolfowitz, (1944)
Mann, (1945a)
Mann, (1945b)
Mann, (1950)
Marbe, (1926)
Marbe, (1934)
Mihoc, (1943)
Moore, (1949)

Moore, Wallis, (1943)
Moran, (1947a)
Moran, (1948c)
Moran, (1951a)
Mosteller, (1941)
Noether, (1950)
Nair, K.R., (1938)
Old, (1949)
Olmstead, (1942)
Olmstead, (1946)
van der Plank, (1946)
Rider, (1951)
Rosander, (1942)
von Schelling, (1939)
Shewhart, (1941)
Silberstein, (1945)
Stevens, (1937)
Stevens, (1939)
Sukhatme, (1949a)
Sukhatme, (1949b)
Thomas, (1951)
Tippett, (1927)
Ville, J., (1943a)
Ville, J., (1943b)
Wald, Wolfowitz, (1943)
Waldapfel, (1943)
Walker, (1927)
Wallis, Moore, (1941a)
Wald,
Wolfowitz, (1942)
Young, (1941)
Yule, (1938)

J: CORRELATION AND CURVE FITTING

Blomqvist, (1950)
Brown, Stanley,
Chown, Moran, (1951)
Crest, (1940)
Daniels, (1943)
Daniels, (1950)
Daniels, Kendall, (1947)
David, Kendall, Stuart, (1951)
Deming, (1938)
DuBois, (1939)
Esscher, (1924)
Gayen, (1951)
Hemelrijk, (1949)
Hoeffding, (1947)
Hoeffding, (1948b)
Horn, (1942)
Hotelling, Pabst, (1936)

Kaarsemaker, van Wijngaarden, (1952)
Kendall, (1938)
Kendall, (1942b)
Kendall, (1945)
Kendall, (1947)
Kendall, (1948a)
Kendall, (1948b)
Kendall, (1949)
Kendall, M.G., Kendall, S.F.H., Smith, B.B., (1938)
Mood, (1950)
Moran, (1947c)
Moran, (1948a)
Moran, (1948b)
Moran, (1950a)
Moran, (1950b)
Moran, (1951b)
Moroney, (1951)
Nair, Shrivastana, (1942)
Norton, (1946)
Olds, (1938)
Olmstead, Tukey, (1947)
Pearson, K. (1916)
Pitman, (1937b)
Pridmore, (1944)
Schüttzenberger, (1948a)
Sillitto, (1947)
Silverstone, (1950)
Smith, (1941)
Spearman, (1904)
Steffensen, (1941)
"Student", (1921)
Theil, (1950a)
Theil, (1950b)
Trelcar, (1942)
Whitfield, (1947)
Whitfield, (1949)
Whitfield, (1950)
Wolfowitz, (1943)
Woodbury, (1940)

K: COMPARATIVE STUDIES

Bartlett, (1935)
Benson, (1949)
Bradley, (1952a)
Bradley, (1952b)
Camp, (1946)
Cochran, (1936)
David, (1949)
David, Johnson, (1951a)
David, Johnson, (1951b)

Davies, Pearson, E.S., (1934)
Eden, Yates, (1933)
Eisenhart, (1947)
Festinger, (1943)
Finch, (1950)
Gayen, (1949)
Gayen, (1950b)
Gayen, (1951)
Geary, (1936)
Geary, (1947)
Hastings, Mosteller, Tukey, Winsor, Hirschmann, (1943)
Hotelling, (1947)
Hsu, (1945)
Laderman, (1939)
Moriguti (1951)
Nair, (1941)
Pearson, E.S., (1931)
Pearson, E.S., (1937)
Pearson E.S., (1950b)
Pearson E.S., Adyanthāyā, (1929)
Pearson, E.S., Merrington, (1951)
Perlo, (1933)
Rider, (1929)
Shone, (1949)
Steinhaus, (1948)
Tukey, (1948b)
Tukey, (1950)

L: SYSTEMATIC STATISTICS

Barnard, (1943a)
Benson, (1949)
Burr, (1952)
Chandrasekar, Francis, (1941)
Cochran, (1941)
Cole, (1951)
Cox, (1948)
Craig, (1932)
Cramér, (1946)
Daly, (1946)
David, (1951)
Davies, Pearson, (1934)
Dodd. (1923)
Egudin, (1947)
Eisenhart, Deming, Martin, (1948)
Epstein, Sobel, (1952)
Feller, (1951)
Fisher, Tippett, (1928)
Frechét, (1927)
Gartstein, (1948)
Godwin, (1948)
Godwin, (1949)

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Gumbel, (1944)
Gumbel, (1946)
Gumbel, (1947a)
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Gumbel, Kenney, (1950a)
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Hastings, Mosteller, Tukey, Winsor, (1947)
Hayashi, (1950)
Homa, (1951)
Johnson, (1952)
Jones, (1946)
Jones, H.L., (1948)
Kawata,
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Schüttzenberger, (1948c)
Shone, (1949)
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Smirnoff, (1935)
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Walsh, (1946a)
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Baten, Trowt, (1946)
Bliss, Anderson, Marland, (1943)
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Bradley, Terry, (1951a)
Bradley, Terry, (1951b)
Chapman, (1935)
Cramér, (1946)
Cfist, Seaton, (1941)
Durbin, (1951)
Eddison, Kempthorne, Hosking, Barkworth, Cox, Rowlands, (1951)
Eysenck, (1939)
Friedman, (1940)
Greenwood, (1943)
Greenwood, Salerno, (1949)
Guttman, (1946)
Kendall, (1942a)
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Bendersky, (1948)
Bertrand, (1875)
Besson, (1920)
Bienaymé, (1875)
Bilham, (1926)
Birnbaum, (1948)
Birnbaum, (1949)
Birnbaum, Lingey, (1951)
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Blomqvist, (1951)
Borel, (1933)
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Botteman, van Veen, (1943)

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Brown, Mood, (1951)
Burr, (1952)
Carlton, (1946)
Chandrasekar, Francis, (1941)
Chung, (1949)
Cochran, (1938)
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Cochran, (1952)
Cramer, (1946)
Daniels, Kendall, (1947)
Darling, (1951)
David, (1934)
David, (1939)
David, (1947a)
David, (1947b)
David, (1948)
David, Johnson, (1948)
David, Johnson, (1951a)
David, Johnson, (1951b)
David, Kendall, Stuart, (1951)
Dixon, (1940)
Dodd, (1923)
Domb, (1947)
Doob, (1949)
Eggleton, Kermack, (1944)
Eisenhart, (1937)
Eisenhart, (1938)
Eisenhart, Deming, Martin, (1948)
Erdös, Kac, (1947)
Esscher, (1924)
Evans, (1942)
Federighi, (1950)
Feller, (1948)
Feller, (1951)
Finney, (1947)
Fisher, (1922)
Fisher, (1926a)
Fisher, (1926b)
Fisher, (1928)
Fisher, Tippett, (1928)
Fraser, (1950)
Frechét, (1927)
Freund, (1951)
Friedman, (1937)
Friedman, (1940)
Gardner,
Gartstein, (1948)
Geary, (1936)
Gosh, (1948)
Gildemeister, van der Waerden, (1943-44)
Gleissberg, (1945)
Gleissberg, (1947

Godwin, (1948)
Gold, (1929)
Gontcharoff, (1942)
Gontcharoff, (1943)
Gontcharoff, (19444)
Goudsmit, (1945)
Greenwood, (1938)
Greenwood, (1940)
Greenwood, (1946)
Greville, (1941)
Greville, (1944)

Gumbel, (1935)
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Gumbel, (1946)
Gumbel, (1947a)
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Gumbel, von Schelling, (1950)
Gupta, (1950)
Haden, (1947)
Hadwiger, (1943)
Hadwiger, (1946)
Haldane, (1937)
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Haldane, Smith, (1948)
Hannah, (1950)
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Hartley, (1950b)
Hastings, Mosteller, Tukey, Winsor, Hayashi, (1950)
Hemerlrijk, (1952)
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Hoeffding, (1948a)
Hoeffding, (1948b)
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Hoeffding, Robbins, (1948)
Hoel, (1938)
Homma, (1951)
Hotelling, Pabst, (1936)
Hsu, (1945)
Ising, (1925)
Johnson, (1948)
Kac, (1949)
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Kendall, M.G., Smith, (1939d)
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Kermack, McKendrick, (1937b)
Kolmogoroff, (1933)
Kolmogoroff, (1941)
Krishna, (1947)
Krishna, (1948)
Krishna (1949a)
Krishna, (1949b)
Krishna, (1950a)
Krishna, (1950c)
Krishna, (1951b)
Krishna, Sukhatme, (1949)
Kruskal, (1952)
Kullback, (1939)
Kuznets, (1929)
Kimball, (1947)
Kimball, (1950)
Levene, (1946)
Levene, (1952)
Levene, Wolfowitz, (1944)
Mack, (1948)
MacMahon, (1917)
MacStewart, (1941)
Madow, (1948)
Malmqvist, (1950)
Mann, (1945a)
Mann, (1945b)
Mann, Whitney, (1947)
Marbe, (1926)
Marbe, (1934)
Marshall, (1951)
Marshall, Walsh, (1950b)
Massey, (1950c)
Massey, (1951b)
Massey, (1951c)
Mathisen, (1945)
Mauldon, (1951)
McCarthy, (1947)
McKay, (1935)
McMillan, (1949)
Mihoc, (1943)
Mihoc, (1949)

von Mises, (1936)
Mood, (1940)
Mood, (1941)
Mood, (1950)
Moore, (1949)
Moore, Wallis, (1943)
Moran, (1947a)
Moran (1947b)
Moran, (1947d)
Moran, (1948a)
Moran, (1948c)
Moran, (1950b)
Moran (1951a)
Moran, (1951b)
Moriguti, (1951)
Mosteller, (1941)
Mosteller, (1946)
Mosteller, (1948)
Mosteller, (1950)
Mullemeister, (1945)
Neyman, (1935)
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Noether, (1949)
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Nair, A.N.K., (1942)
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Nair, K.R., (1948a)
Nair, K.R., (1948b)
Olds, (1949)
Olmstead, (1946)
Olmstead, Tukey, (1947)
Patnaik, (1949)
Pearson, (1900)
Pearson, (1931)
Pearson, (1920)
Pearson, (1933)
Pitman, (1937)
van der Plank, (1946)
Rajalakshman, (1943)
Rider, (1950)
Rider, (1951)
Robbins, (1944b)
Robbins, (1945)
Sakamato, (1943)
Santaló, (1947)
Sawkins, (1947)
von Schelling, (1939)
von Schrutka, (1941)
Schüttzenberger, (1948b)
Schuyler, (1948)
Seal, (1948)

Shanawany, (1936)
Sherman, (1950)
Shone, (1949)
Silberstein, (1945)
Sillitto, (1947)
Silverstone, (1950)
Smirnoff, (1935)
Smirnoff, (1939a)
Smirnoff, (1939b)
Smirnov, (1947)
Stevens, (1937)
Stevens, (1939)
Stevens, (1951)
Stuart, (1951)
"Student", (1921)
Sukhatme, (1949a)
Sukhatme, (1949b)
Thompson, (1936)
Thompson, (1938)
Ville, (1943a)
Vora, (1950)
Votaw, (1946)
Wald, (1947)
Wald, Wolfowitz, (1940)
Wald, Wolfowitz, (1943)
Wald, Wolfowitz, (1944)
Waldapfel, (1943)
Walker, (1927)
Wallis, (1939)
Wallis, Moore, (1941a)
Wallis, Moore, (1941b)
Walsh, (1949a)
Welch, (1938)
Whitworth, (1945)
Wilks, (1935)
Wilks, (1943)
Wishart, Hirschfield, (1936)
Wolfowitz, (1942)
Wolfowitz, (1944a)
Wolfowitz, (1944b)
Woodbury, (1940)
Young, (1941)

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Baillie, (1946)
Baker, Guilbert, (1942)
Barnard, (1934a)

Bennett, (1951)
Bilham, (1926)
Brown, (1948)
Cameron, (1952)
Campbell, (1942)
Charley, (1950)
Cochran, (1936)
Cochran, (1938)
Cole, (1945)
Cowles, Jones, (1937)
Crist, (1940)
Crist, Seaton, (1941)
Dawson, Duehring, Parks, (1947)
Eisenhart, Wilson, (1943)
Elfving, Whitlock, (1950)
Eysenck, (1939)
Gage, (1943)
Gold, (1929)
Greenwood, Salerno, (1949)
Grüneberg, Haldane, (1937)
Guttman, (1946)
Haldane, Smith, (1948)
Jones, (1937)
Kendall, Smith, (1938)
Kendall, Smith, (1939b)
Lesser, (1933)
Mainland, (1948)
Mosteller, (1941)
Nair, K.R., (1938)
Olmstead, (1940)
Pearson, (1900)
Pearson, (1911)
Pearson, (1932a)
Pridmore, (1944)
Rider, (1951)
Schüttzenberger, (1948b)
Sealy, (1943)
Shewhart, (1941)
Whitfield, (1950)
Wilcoxin, (1946)
Yule, (1938)

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Bateman, (1948)
Berge, (1937)
Bilham, (1926)

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Blomqvist, (1950)
Blomqvist, (1951)
Camp, (1948)
Cole, (1945)
Cox, (1948)
David, (1934)
David, (1939)
David, (1947a)
David, (1947b)
David, (1949)
David, (1950a)
David, (1951)
David, Kendall, Stuart, (1951)
Dixon, (1940)
Dixon, (1946)
DuBois, (1939)
Elderton, (1902)
Festinger, (1946)
Finch, (1950)
Finney, (1948)
Fisher, (1922)
Fisher, (1950)
Fisher, Yates, (1948)
Friedman, (1937)
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Fulcher, (1942)
Gayen, (1949)
Gayen, (1950a)
Gayen, (1950b)
Gayen, (1951)
Gleissberg, (1945)
Godwin, (1949)
Gumbel, (1947a)
Gumbel, (1949)
Gumbel, Greenwood, (1951)
Gumbel, Kenney, (1950a)
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Gumbel, vonSchelling, (1950b)
Gupta, (1950)
Haldane, Smith, (1948)
Hartley, (1950a)
Hartley, (1950b)
Hastings, Mosteller, Tukey, Winsor, Jones, (1946)
Jones, (1948)
Jungensen, (1947)
Kaplansky, (1945a)
Kendall, (1952)
Kendall, Smith, (1938)
Kendall, Smith, (1939a)
Kendall, Smith, (1939c)
Kendall, Smith, (1939d)

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Krishna, (1950a)
Kunisawa, Marabe, Morimure, (1951)
Leser, (1942)
Levene, (1952)
Lord, (1947)
MacStweart, (1941)
Mainland, (1948)
Mann, (1950)
Mann, Whitney, (1947)
Marshall, Walsh, (1950b)
Massey, (1950c)
Massey, (1951a)
Massey, (1950b)
Mathisen, (1943)
McCarthy, (1947)
McKay, (1935)
Moore, Wallis, (1943)
Moran, (1948b)
Moran, (1950b)
Moran, (1951b)
Moshman, (1952)
Mosteller, (1941)
Mosteller, (1946)
Mosteller, (1948)
Mosteller, Tukey, (1950)
Murphy, (1948)
Neyman, Pearson, (1930)
Norton, Nair, K.R., (1948a)
Olds, (1938)
Olds, (1949)
Olmstead, (1946)
Olmstead, Tukey, (1947)
Patnaik, (1948)
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Pearson, Merrington, (1948)
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Sillitto, (1949)
Sillitto, (1951)
Silverstone, (1950)
Smirnov, (1947)
Smirnov, (1948)
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Swed, Eisenhart, (1943)
Swineford, (1946)
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Thomas, (1951)
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Walsh, (1946d)
Walsh, (1949a)
Walsh, (1949c)
Walsh, (1950b)
Walsh, (1950c)
Walsh, (1951)
Welch, (1937)
Welch, (1938)
Westenberg, (1948)
Whitfield, (1949)
Whitney, (1951)
van Wijngarden, (1950)
Wilcoxon, (1945)
Wilcoxon, (1947
Wilcoxon, (1949)
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Young, (1941)
Zurbin, (1939)

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